

# Course Outline for S1000D

- Who** This course is a generic course for those who wish to gain knowledge of the S1000D specification, how to implement it and its implications for technical publications.
- Length** The course is spread over one or three days, depending on the modules selected:
- Day One – an introduction to the requirements for implementing S1000D. Managers and those who need only to be aware of the requirements may use this as a stand-alone day.
- Days Two and Three – cover the practical application and issues associated with S1000D implementation.
- It may be possible to incorporate into the course any special technical requirements of the delegates, please discuss this with us in advance of the course.

## Day One

This is suitable for both Management who are intending to implement the principles of S1000D and Project Managers and Authors who will generate data in accordance with S1000D.

### Introduction

Provides an outline of the course content and approximate time table.

### S1000D and its' Origins

Brief history of the specification.

### Principles

This will indicate the decisions which result from the acceptance of the S1000D specification in terms of requirement for SGML, the breaking down of information into data modules etc.

### SGML – Outline

An outline to provide:

- Background to the principles of SGML.
- Advantages and disadvantages.
- Implementation requirements.

### Data Module Identification

Introducing the concept of hierarchical breakdown of equipment into equipment or function areas and the application of pre-determined codes to that breakdown.

### Types of Data Modules and other Required Files

Introducing the concept of different structures for differing types of information.

### Control of Data Modules

How to control, track and extract data for use by clients

### Recommended requirements for Implementation

High-level discussion of the types of infrastructure requirements necessary to implement working to S1000D. Essential and suggested software and applications.

## Days Two/Three

Covering in more detail the application of SGML. The hierarchical breakdown of equipment.

This part of the course is intended for those who are going to generate material. It is suitable for Project Managers and Authors who will be generating data in accordance with S1000D. Although it will provide a good basic background, it will not provide the in-depth understanding normally required by those who need to develop SGML/XML applications.

These two days contain some practical work. Refer to the Course Requirements for details of the equipment etc that is required.

## Day Two

### Introduction

An indication of topics covered over the days two and three.

### SGML

This part of the course provides a theoretical and practical outlook on the principles of Standard Generalized Markup Language (ISO 8879:1986) and its derivatives such as XML and HTML.

The topics covered are indicated below:

- The standard
- Elements & attributes
- Occurrence, structure & sequence
- Document Analysis (elementary)
- Creating a simple Document Type Definition
- Using the DTD for testing purposes
- The use of SGML Parsers
- Cross referencing
- Tables
- Illustrations
- Foreign and other characters (ISO Entities)
- XML Principles and outline of associated specifications.

**S1000D**

This part of the course provides a more detailed view of the requirements of working with S1000D. The areas covered are:

- The Specification and its layout
- The concept of data modules
- Breakdown of equipment/functionality
- Simple exercise of breakdown of equipment.
- An examination of the main types of data module structure. This will include the purposes and actual structures
- An examination of the associated S1000D files/data modules. This will include the purposes and actual structures
- An examination of the associated S1000D files/data modules
- Project control (from start of a project, through maintenance to delivery)
- The function of a Common Source Database, Work flow, LSAR and other possible applications.
- Output – Electronic
  - Publication Module
  - The concept of the IETP
  - Files required for the IETP – SGML and XML
  - An IETP
  - Output – Hard copy
  - Enhanced Publication Module
  - Generating a book
  - Applicability
  - Project Configuration – possible conflicts between projects (use of business rules)

**Course Requirements**

This course has practical elements within it which require the active participation of delegates. Equipment requirements are as follows::

**Hardware**

A standard modern PC: running MS Windows

A minimum of one PC shared by two delegates is recommended. (It is sometimes helpful for delegates to share a machine so that they can discuss points during the course.)

**Quantity:**

It is recommended that there is a minimum of one PC shared by two people (it is sometimes helpful for delegates to share a machine so that they can discuss points along the way).

**Projector**

The course instructor will need to project PowerPoint presentations, practical examples, software etc onto a screen during this course. The instructor will bring a laptop containing the material to be projected, however, the provision of a suitable projector is therefore required. The availability of this, and a suitable screen, should be discussed when booking the course. Under some circumstances it is possible for the Instructor to bring a suitable projector.

**Software**

Some software will be provided for installation. This consists of:

- A free DTD Graphical viewer,
- An SGML Editor (outdated version no longer supported or available).
- An SGML parser (freeware with a Windows GUI)
- DTDs
- A suitable text editor (which displays line numbers)

Some of this software may require installation rights during installation only. The software may be removed following the course if required.

Some software items require configuration and it is recommended that this is carried out by the instructor.

**Projector and Screen**

The instructor will bring a laptop containing the material to be projected and a suitable projector and screen must be provided. The course instructor will need to project PowerPoint presentations, practical examples, software, etc. onto a screen during the course. The availability of a suitable projector and screen should be discussed when booking the course. Under some circumstances it is possible for the instructor to bring a projector.